

Remarks

Claims 1-20 are currently pending in this application, of which, Claims 1-3, 5-7, 11-14 and 16-17 are currently amended and Claims 19-20 are new. The claims are amended to better characterize the scope of the claimed invention. The support for the amendment of the repetition rate in the first limitation of Claim 1 from “1 MHz” to “0.1 MHz” is Claim 7 as originally filed. Claim 7 is amended to reflect the narrower range by changing “0.1 MHz” to “1 MHz.”

New Claim 19 includes limitations similar to those of Claim 1 and adds limitations described in the specification as filed and is believed to be supported by the specification as filed, and therefore, does not introduce new matter. For example, support for the claim limitations of Claim 19 can be found in the specification as filed at least as indicated below:

19. (New) A system comprising:

a semi-conductor chip laser diode configured for generating pulses at a repetition rate between 0.1 and 50 MHz; [paragraph [0017] and Claims 1 and 7]

a semiconductor optical amplifier; [paragraph [0024]]

a dispersive element configured for compressing the generated pulses; and [paragraph 0026]

a scanning element configured for scanning a beam of the generated pulses to ablate a scanned area at least 25 times larger than spot area of the beam at the surface of the work-piece. [paragraph 0018 and Claim 1]

New Claim 20 adds a limitation described in the specification as filed and is believed to be supported by the specification as filed, and therefore, does not introduce new matter. For example, support for the claim limitation of Claim 20 can be found in the specification as filed at least as indicated below:

20. (New) The system of claim 19 further comprising a cauterizing laser.

[paragraph [0018]]

New **FIGs. 1 and 2** are attached. Examiner is requested to add the new FIGs. 1 and 2 to the application. Applicants believe these figures are supported by the
5 specification as filed and, therefore, do not introduce new matter. For example, FIG. 1 is supported at least by Claim 1 and by original paragraph [0011] of the specification as filed. For example, FIG. 2 is supported at least by Claim 1 and by paragraphs [0017], [0018], [0024] and [0026] of the specification as filed.

The Amendments to the Specification are believed to be supported by the
10 specification as filed, and therefore, do not introduce new matter.

Replacement paragraph [0011] is amended to add step numbers to the specification corresponding to new FIG. 1. Support for FIG. 1 is discussed above.

New paragraphs [0013.1] and [0013.2] are added to describe the new figures. These figures are supported by the specification as discussed above.

15 **New paragraph [0016.1]** is supported, for example, by the sections of the specification as filed that support new Claim 19 as described above.

Replacement paragraphs [0017] and [0018] are amended to associate elements in the specification to reference numbers in new FIG. 2. These elements are at least supported, for example, by the text in the paragraphs of the specification as filed that
20 immediately precede or follow the amended text, e.g. paragraphs [0017] and [0018]. Support for FIG. 2 is discussed above.

For example, the added text in paragraph [0017], “e.g. semiconductor-chip diode 210,” is supported at least by the original sentence to which this phrase is added. For example, the added text in paragraph [0018], “e.g. scanning element 240” is supported at least by the sentence to which the phrase was added and by the immediately following sentence in the specification as filed. Likewise, the added phrase in the same paragraph “e.g. LED 260,” is supported by the sentence to which it was added. The third change to paragraph [0018], the addition of, “e.g. cauterizing laser 250,” is supported in the sentence in which it appears where a specific laser is described and again in the sentence immediately following it.

10 **Replacement paragraph [0024]** is amended to associate elements in the specification to reference numbers in new FIG. 2. The added text in paragraph [0024], “e.g. semiconductor optical amplifier 220” is supported, for example, at least by the sentence to which the phrase was added.

15 **Replacement paragraph [0026]** is amended to associate elements in the specification to reference numbers in new FIG. 2. The added text in paragraph [0026], “e.g. dispersive element for compression 230” is supported, for example, at least by the sentence to which it was added.

Conclusion

The Applicants request Examiner to enter the above amendments, and examine and allow all pending claims.

The Examiner is invited to contact the Applicants' undersigned representative
5 with any questions concerning the present application.

Respectfully submitted,

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By: 

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